

**TECHSPEC® 16mm Focal Length, UAV Series Fixed Focal Length Lens**



TECHSPEC® UAV Series Fixed Focal Length Lenses



Stock #22-836 **10 In Stock**

⊖ 1 ⊕ A\$1,298<sup>00</sup>

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**General**

UAV Series **Product Family:**

Fixed Focal Length Lens **Type:**

Infinite Conjugate **Imaging Lens Type:**

**Physical & Mechanical Properties**

Variable **Iris Option:**

92.23	Length (mm):
50.0	Maximum Diameter (mm):
50	Outer Diameter (mm):
223	Weight (g):
4.0	Maximum Rear Protrusion (mm):
88.77	Maximum Length (mm):
88.23	Minimum Length (mm):

## Optical Properties

49.5°	Horizontal Field of View @ Max Sensor Format:
49.5°	Horizontal Field of View, 1.2" Sensor:
58.2°	Horizontal Field of View, 1.1" Sensor:
53.6°	Horizontal Field of View, 1" Sensor:
38.2°	Horizontal Field of View, 2/3" Sensor:
31.5°	Horizontal Field of View, 1/1.8" Sensor:
19.30	Maximum Image Circle (mm):
0.00057	Numerical Aperture NA, Object Side:
9 (8)	Number of Elements (Groups):
425 - 675	Wavelength Range (nm):
16.00	Focal Length FL (mm):
500 - ∞	Working Distance (mm):
FOV @ Max Sensor Format, H x V (mm): Horizontal: 49.5° Vertical: 43.3° Diagonal: 62.8°	
f/2.8 - f/16	Aperture (f#):
425 - 675 BBAR	Coating:
425 - 675 BBAR	Coating Specification:
26.984	Entrance Pupil Position (mm):
-34.86	Object Space Principal Plane (mm):
-15.78	Image Space Principal Plane (mm):
1.5	Maximum Distortion (%):
-31.232	Exit Pupil Position (mm):
VIS	Lens Wavelength Range:

## Sensor

1.2"	Maximum Sensor Format:
2.74	Pixel Size (μm):

## Threading & Mounting

M49.0 X 0.50 (Female)	Filter Thread:
M49.0 X 0.50	Front Thread:
C-Mount	Mount:

## Environmental & Durability Factors

### Storage Temperature (°C):

-20 to +60 For questions regarding operating temperature please contact our support team

## Regulatory Compliance

### RoHS 2015:

Compliant

### Certificate of Conformance:

[View](#)

### Reach 235:

Compliant

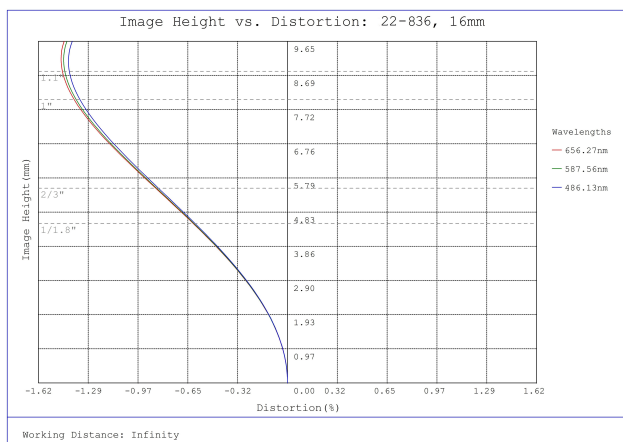
## Product Details

- Compact, Infinite Conjugate Lens Ideal for Photogrammetry
- 8mm, 12mm, 16mm, 25mm, and 35mm Focal Lengths
- 1.2", C-Mount Lens
- Up to 24.4 MegaPixels, 2.7µm Pixel Size Sensors

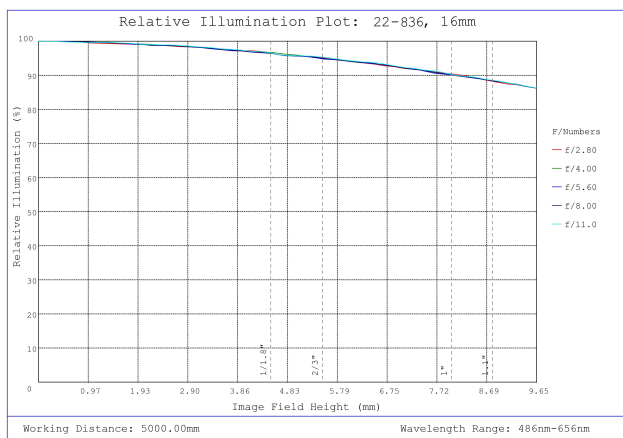
TECHSPEC® UAV Series Fixed Focal Length Lenses are compact, lightweight infinite conjugate lenses designed for the 4th Generation Sony Pregius 1.2" IMX530 and IMX540 sensors for mounting on autonomous vehicles and drones. These lenses are designed with a low Ground Separation Distance (GSD) to enable accurate survey results, and are available in 8mm, 12mm, 16mm, 25mm, and 35mm focal length options. The  $f/2.8$  aperture provide increased light throughput and high-resolution performance. TECHSPEC® UAV Series Fixed Focal Length Lenses are C-Mount and feature a locking focus and iris rings to prevent unwanted adjustments, as well as a front filter thread for integrating standard [optical filters](#). These lenses are ideal for Drone Mapping and Surveying, Aerial Imaging, and Photogrammetry applications.

**Note:** Call for OEM Quantity and Pricing

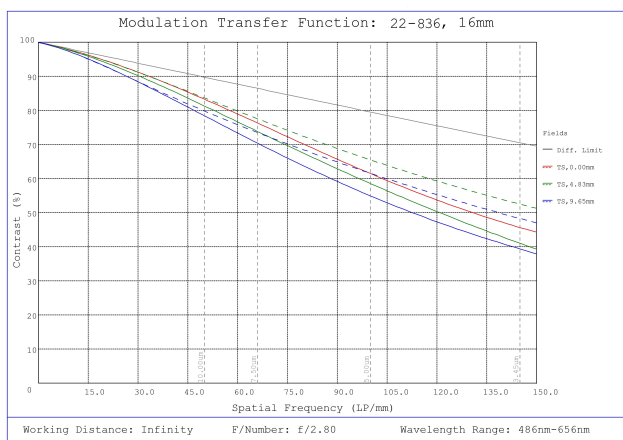
## Technical Information



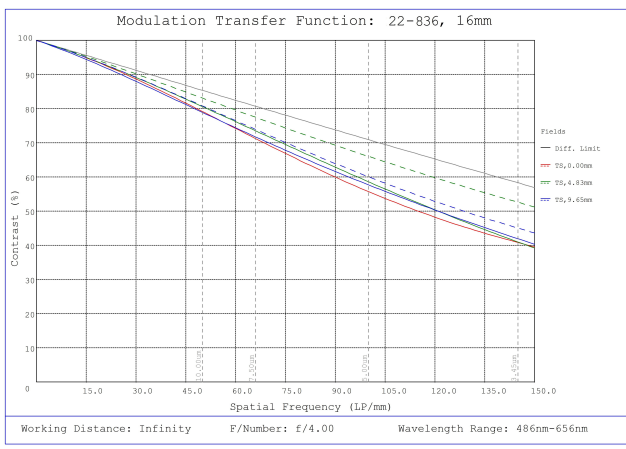
#22-836 - 16mm Focal Length, UAV Series Fixed Focal Length Lens, Distortion Plot



#22-836 - 16mm Focal Length, UAV Series Fixed Focal Length Lens, Relative Illumination Plot



#22-836 - 16mm Focal Length, UAV Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, Infinity Working Distance, f2.8



#22-836 - 16mm Focal Length, UAV Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, Infinity Working Distance, f4